

What is Claimed is:

*Out All*

1. A computer-implemented method for searching a large number of hypertext documents in accordance with a current search query, comprising:  
determining which of the hypertext documents are expert documents;  
ranking the expert documents in accordance with the current search query;  
ranking target documents pointed to by the ranked expert documents; and  
returning a results list based on the ranked target documents.

2. The computer-implemented method of claim 1, wherein the hypertext documents are pages in the world wide web.

3. The computer-implemented method of claim 1, wherein the hypertext documents are sites in the world wide web.

4. The computer-implemented method of claim 1, wherein the hypertext documents are documents in a hypertext database.

5. The computer-implemented method of claim 1, wherein an expert reverse index is constructed in memory for keywords appearing in the expert documents, the expert reverse index identifying the location of the keywords in the expert documents.

6. The computer-implemented method of claim 5, wherein a keyword of an expert document is included in the expert reverse index if the keyword is part of a key phrase that qualifies at least one URL in the expert document.

7. The computer-implemented method of claim 6, wherein a key phrase qualifies a URL if the URL is within the scope of the key phrase in the expert document.

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1 8. The computer-implemented method of claim 6, wherein a key phrase in an  
2 HTML title qualifies all URLs in the entire document.

3  
1 9. The computer-implemented method of claim 6, wherein a key phrase in an  
2 HTML heading qualifies all URLs in that portion of the document before a next HTML  
3 heading in the document of greater or equal importance.

4  
1 10. The computer-implemented method of claim 6, wherein a key phrase in an  
2 HTML anchor qualifies the URLs in the anchor.

3  
1 11. The computer-implemented method of claim 1, wherein determining which  
2 of the hypertext documents are expert documents includes:  
3 determining a document having at least a predetermined number of outlinks  
4 to be an expert document if the document also points to at least the predetermined  
5 number of targets or distinct non-affiliated hosts.

6  
1 12. The computer-implemented method of claim 11, wherein expert documents  
2 additionally must point to documents that share the same broad classification.

3  
1 13. The computer-implemented method of claim 1, wherein ranking the expert  
2 documents in accordance with a current search query includes:  
3 determining a level score for an expert document;  
4 determining a fullness factor for each key phrase on the expert document;  
5 and  
6 determining an expert score for the expert document in accordance with  
7 the level score of the expert document and the fullness factors for the key phrases of the  
8 expert document.

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1 *Sub 3* 14. The computer-implemented method of claim 1, wherein ranking target  
2 documents pointed to by the expert documents includes:

3 determining a plurality of edge scores for each target document, where an  
4 edge score is determined for edges between the expert documents and the target  
5 document;

6 determining a target score in accordance with the edge scores of the target  
7 document;

8 ranking the target documents in accordance with the target scores.

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1 15. The computer-implemented method of claim 14, further including:

2 determining an edge score only for those links to the target document  
3 from a predetermined number of top-ranked expert documents.

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1 16. The computer-implemented method of claim 14, further including selecting  
2 target documents to be ranked that are linked to by at least two mutually non-affiliated  
3 selected expert documents, where the selected target also is not affiliated with the expert  
4 documents.

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1 17. The computer-implemented method of claim 14, where an edge score  
2 between an expert document and a target document  $ES(E,T)$  is determined as follows,  
3 where ExpertScore reflects the rankings of the expert documents:

4 a) find #occurrences of each keyword in all keyphrases of expert document E

5 b) if the #occurrences for any keyword in E is 0:  $ES(E,T)=0$

6 else  $ES(E,T)=\text{ExpertScore}(E) * \text{sum of \#occurrences for all keywords.}$

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18. The computer-implemented method of claim 14, wherein, if two affiliated experts have edges to the same target, the edge having a lower edge score is discarded and is not used to determine the target score.

19. The computer-implemented method of claim 1, wherein two hypertext documents are affiliated if at least one of the following is true: 1) they share the same rightmost non-generic suffix and 2) they have an IP address in common.

20. An apparatus that searches a large number of hypertext documents in accordance with a current search query, comprising:

a software portion configured to determine which of the hypertext documents are expert documents;

a software portion configured to rank the expert documents in accordance with the current search query;

a software portion configured to rank target documents pointed to by the ranked expert documents; and

a software portion configured to return a results list based on the ranked target documents.

21. A computer program product, comprising:

a computer usable medium having computer readable instructions stored therein to search a large number of hypertext documents in accordance with a current search query, including:

computer readable/program code devices for causing a computer to determine which of the hypertext documents are expert documents;

computer readable program code devices for causing a computer to rank the expert documents in accordance with the current search query;

9 computer readable program code devices for causing a computer to rank target  
10 documents pointed to by the ranked expert documents; and  
11 computer readable program code devices for causing a computer to return a  
12 results list based on the ranked target documents.  
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